

Revised
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MATERIAL SAFETY DATA SHEET

TS SERIES

CYANOACRYLATE ADHESIVE

| | | | | | | |
|-------------|---------------|----------|---------------------|----------|-------------------|----------|
| HMIS | HEALTH | 2 | FLAMMABILITY | 2 | REACTIVITY | 2 |
| NFPA | HEALTH | 2 | FIRE HAZARD | 2 | REACTIVITY | 2 |

1. Chemical Product

Product Name: TS Series
Product Type: Ethyl Cyanoacrylate Adhesive

2. Composition and Information on Harmful Ingredients

| Ingredients | CAS No. | OSHA TLV | ACGIH TLV | Other Limits | %Composition |
|---------------------|----------------|------------------------|------------------------|------------------------|---------------------|
| Ethyl Cyanoacrylate | 7085- 85- 0 | N/A | N/A | 2ppm TWA | 88- 93 |
| Hydroquinone | 123- 31- 9 | 2mg/m ³ TWA | 2mg/m ³ TWA | 2mg/m ³ TWA | 1- 2 |

3. Hazards Identification

Label Precautionary Statements: Irritant. Irritating to eyes, skin, and respiratory system.
Cyanoacrylate. Danger. Bonds skin and eyes in seconds.

Primary Routes of Entry: None Known

Symptoms of Exposure: Vapor irritating to eyes and breathing. Prolonged exposure may lead to non- allergic asthma.

Medical Conditions Aggravated by Exposure: No applicable information found.

Ethyl Cyanoacrylate is not listed as a carcinogen in the US National Toxicology Program Annual report on carcinogens, or by the International Agency for Research on Cancer.

4. First Aid Measures

Ingestion: Ingestion not likely due to polymerization.

Inhalation: Remove to fresh air, if symptoms continue, seek medical advice.

Skin Contact: Soak in warm soapy water.

Eye Contact: Flush with water, seek medical attention.



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5. Fire Fighting Measures

| | |
|---|--|
| Flash Point: | >81 °C (150- 200 °F) |
| Extinguishing Media: | Water spray, foam, dry chemical or CO ₂ . |
| Special Fire Fighting Procedures: | Wear self contained breathing apparatus. |
| Unusual Fire / Explosion Hazards: | No applicable information found. |
| Hazardous Thermal Decomposition Products: | Irritating organic vapors may be formed. |

6. Accidental Release Measures

Ventilate area of spill, flood with water to polymerize, absorb with sand / earth and dispose to chemical waste bin. Dispose in accordance with pertinent national legislation.

7. Handling and Storage

When using large volumes ensure that operational area is well ventilated.
Store between 5- 25 °C; avoid strong light and heat sources.
Incompatible with amine, bases, water.
Avoid skin contact and inhalation of vapor.

8. Exposure Control and Personal Protection

| | |
|-------------------------|--|
| Eye Protection: | Safety goggles / glasses suitable for use with chemicals. |
| Respiratory Protection: | Always use appropriate filter mask / respirator. |
| Skin Protection: | Nitrile / polyethylene gloves, coveralls, avoid cotton products. |
| Ventilation: | Good general or local exhaust ventilation is required for usage. |

9. Physical and Chemical Properties

| | |
|---------------------------|-----------------------------|
| Form: | Liquid |
| Color: | Water white / straw colored |
| Odor: | Sharp, irritating |
| Solubility in Water: | Immiscible in water |
| Boiling Point: | >148 °F |
| Specific Gravity @ 25 °C: | 1.1 |
| Vapor Pressure @ 25 °C: | <0.2mm Hg |
| Flash Point: | 71- 94 °C |
| VOC (EPA Method 24): | 94.7%; 994.35g/L |

10. Reactivity and Stability

| | |
|-----------------------------------|---------------------------------|
| Stability: | Stable |
| Hazardous Polymerization: | Will not occur |
| Incompatibility: | Water, bases, amines |
| Conditions to Avoid: | No applicable information found |
| Hazardous Decomposition Products: | No applicable information found |



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11. Toxicological Information

Estimated Oral LD50: >5000 mg kg

Estimated Dermal LD50: >2000 mg kg

Causes Severe Irritation. High concentrations are destructive to tissues of the mucous membranes and the upper respiratory tract.

12. Ecological Information

No applicable information found

13. Disposal Considerations

Cyanoacrylates must be disposed of in accordance with all national and local regulations.

14. Transportation Information

Not considered hazardous for the purposes of transportation.

NON- WARRANTY: Information contained herein is based on tests we believe to be reliable and accurate. It is offered in good faith for the benefit of the consumer. Adhesive Systems shall not be liable for any injury, loss, or damage in the use of its chemical products since the conditions of use are beyond our control. In every case we urge and recommend the user conduct tests to determine to their own satisfaction that the product is of acceptable quality and is suitable for their particular purpose under their own operating conditions. Statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent. Because of changing reporting requirements and other variables it is impossible to guarantee the accuracy of the information contained in this document. It is the responsibility of the user to determine proper personal protection based on the actual condition of use and to comply with all Federal, State, and Local laws and regulations.

Engineering Excellence

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